

Activity # 11

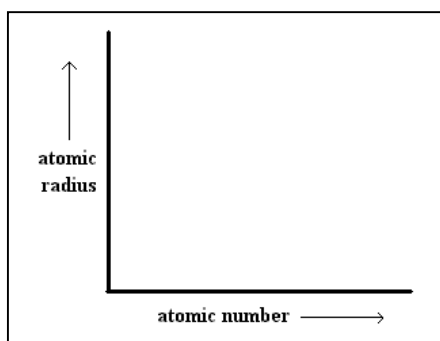
Periodic Table of the Elements																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	He											B	C	N	O	F	Ne
Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar		
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	

* Lanthanide Series
 * Actinide Series

Title: Graphing Trends in the Periodic Table-Student's Response Sheet

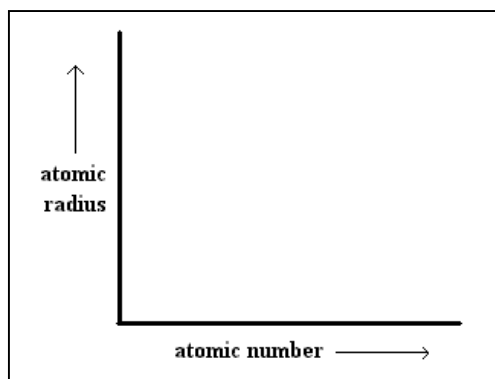
1. Prediction: The sizes (atomic radii) of atoms will (increase, decrease, remain the same) _____ as one goes right-to-left across a period.

2.



EXPECTED appearance of graph (across a period)

3.



ACTUAL appearance of graph (across a period)

4. Similarities: _____

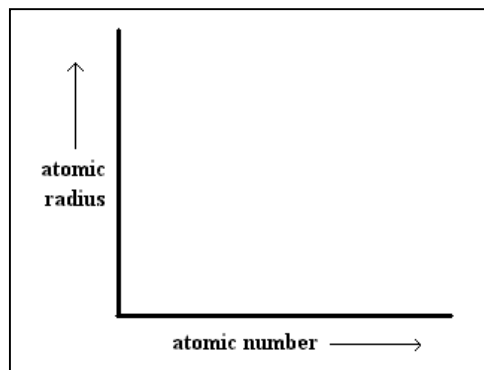
Differences: _____

5. As one goes right-to-left across a period, the sizes of atoms (increases, decreases, remains the same) _____.

6. (Explanation) _____

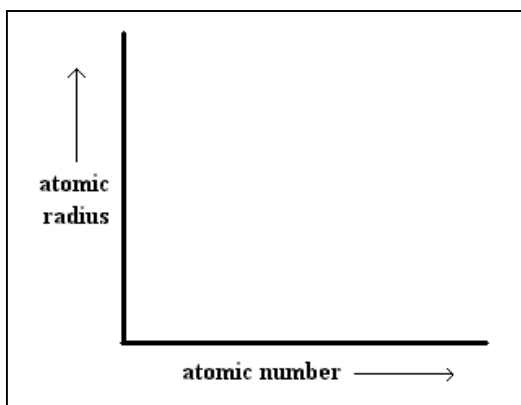
7. Prediction: The sizes of atoms will _____ as one goes down a group (family).

8.



EXPECTED appearance of graph (down a group)

9.



ACTUAL appearance of graph (down a group)

10. Similarities: _____

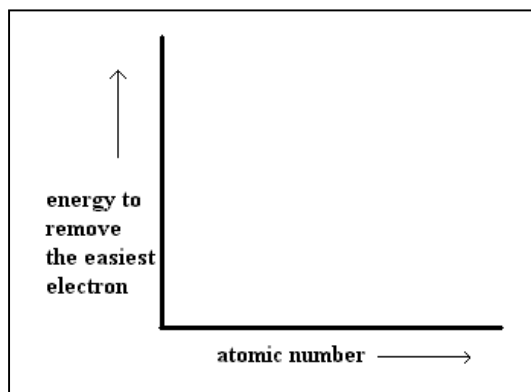
Differences: _____

11. As one goes down a group, the sizes of atoms _____.

12. (Explanation) _____

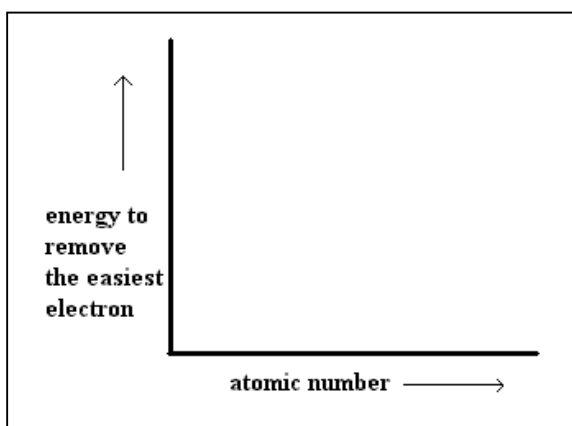
13. Prediction: The energy to remove the easiest electrons will _____ as one goes left-to-right across a period.

14.



EXPECTED appearance of graph (across a period)

15.



ACTUAL appearance of graph (across a period)

16. Similarities: _____

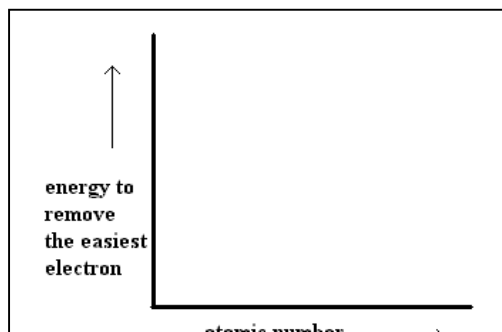
Differences: _____

17. As one goes across a period, the energy to remove the easiest electron _____.

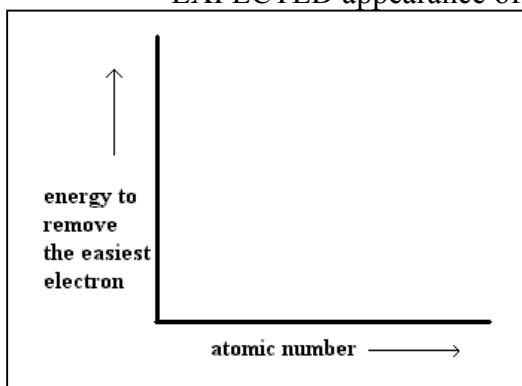
18. (Explanation) _____

19. Prediction: The energy to remove the easiest electrons will _____ as one goes down a group.

20.



21. EXPECTED appearance of graph (down a group)



ACTUAL appearance of graph (down a group)

22. Similarities: _____

Differences: _____

23. As one goes down a group, the energy to remove the easiest electron _____.

24. (Explanation) _____

25. _____

26. _____
